

**Patent Application of**

**Terry D. Good**

**for**

**TITLE: TRAILER MOUNTED SCAFFOLD RACK, COMPARTMENT, AND TROUGH  
SYSTEM FOR ORGANIZING, TRANSPORTING, AND STORING CONSTRUCTION  
SCAFFOLDING AND ACCESSORIES.**

**CROSS-REFERENCE TO RELATED APPLICATIONS**

**This application claims the benefit of PPA Application Number 60/461,060 filed  
04/08/2003 by the present inventor.**

**FEDERALLY SPONSORED RESEARCH**

**Not Applicable**

**SEQUENCE LISTING OR PROGRAM**

**Not Applicable**

## BACKGROUND OF THE INVENTION - - FIELD OF INVENTION

This invention relates to a scaffold rack system, specifically to a trailer or skid mounted scaffold rack system for transporting, storing, and securing construction scaffolding and its accessories.

## BACKGROUND OF THE INVENTION

Construction crews and rental companies commonly use pick-up trucks, dump trucks, and flat-bed trucks to transport construction scaffolding. When trucks are used, it's difficult to load and secure the scaffolding for transporting and generally the scaffolding must be all unloaded at once to free the truck for other uses. Often the scaffolding must be unloaded in an area not conveniently located to where it will be assembled and must be moved again later. This cost the user much time and labor.

The scaffold racks in U.S. Patent 4,901,650 to Armstead 1990 Feb. 20, and U.S. Patent 5,018,629 to Lamar 1991 May 28 are similar to each other. Both are a skid or pallet type and place the scaffold panels flat on the skid and stack them up upon each other, so one must bend over to handle them. With this design, these racks have little room for the accessories and no good way of securing them for transport. The bracing and platform accessories are longer than the scaffold panels, therefore when they are stacked on top they extend beyond the skid making an irregular lift. While this skid type rack may work on larger jobs that have a forklift on site to handle them, they are not practical for the smaller contractors and rental companies who do not have forklifts.

## BACKGROUND OF INVENTION – OBJECTS AND ADVANTAGES

Accordingly, besides the objects and advantages of the trailer mounted scaffold rack system described in my above patent, several objects and advantages of the present invention are:

- (a) to provide safe and easy handling and storing of construction scaffolding and accessories at home and on the job site, where one can load and unload all the parts while standing in an upright position.
- (b) to provide safe and easy securing of the scaffolding and accessories during transportation and storage.
- (c) to provide a time and labor saving method of handling scaffolding, unload as needed and leave the remainder on rack system
- (d) to provide a way to reduce accidents during loading and unloading
- (e) to provide save, fast, and easy method of handling scaffolding without the use of heavy lifting equipment

Further objects and advantages are to provide a trailer mounted fabricated rack, compartment, and trough system that can be easily moved, designed in a neat, practical, and well organized package for organizing, transporting, and storing construction scaffold panels, planks, platforms, bracing, and accessories. Still further objects and advantages will become apparent from a consideration of the ensuing description and drawings.

## SUMMARY

In accordance with the present invention a trailer mounted scaffold rack, compartment, and trough system for safely and easily organizing, transporting, and storing construction scaffolding and accessories.

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**DRAWINGS - - FIGURES**

Fig 1 Shows a perspective view of my trailer mounted scaffold rack, compartment, and trough system.

Fig 2 Shows a left side view of my trailer mounted scaffold rack, compartment and trough system, illustrated in Fig 1, the right side view being substantially similar.

Fig 3 Shows a rear view of my trailer mounted scaffold rack, compartment, and trough system illustrated in Fig 1, the front view being substantially similar.

Fig 4 Shows a top view of my trailer mounted scaffold rack, compartment, and trough system, illustrated in Fig 1.

**DRAWINGS - - Reference Numerals**

10 support arms	12 retainers
14 upright supports	16 bottom members
18 angle iron frames	20 front corner angles
22 rear corner angles	26 trough
28 front trough panel	30 rear trough panel
32 rear chains	34 rear chain snaps
36 side chains	38 chain binders
40 scaffold panel	42 scaffold platform
44 scaffold bracing	

**DETAILED DESCRIPTION - - FIG 1 PREFERRED EMBODIMENT**

Fig 1 shows a perspective view of a basic version of my trailer mounted scaffold rack, compartment and trough system. The system is made up of two support arms **10**, with flat bar retainers **12** welded on each end. These arms are fastened to four upright supports **14** which are fastened to two bottom members **16**.

A formed sheet metal trough **26** with a front trough panel **28** and a rear trough panel **30** is fastened between the upright supports **14** and to the bottom members **16**.

Three angle iron frames **18** are spaced and fastened between the upright supports **14**. Two front corner angles **20** and two rear corner angles **22** are fastened to the three angle iron frames **18** and to the trough **26** at each corner for support.

Four side chains **36** and four chain binders **38** are attached to the upright supports **14**. Two rear chains **32** and two rear snaps **34** are attached to the back end of the two upper angle iron frames **18**.

## OPERATION -- FIG 1

Fig 1 shows a perspective view of my trailer mounted scaffold rack, compartment, and trough system, showing:

- (a) A scaffold panel **40** fitting over the support arms **10** and being retained by support arm retainers **12** and ultimately retained by chain **36** and binder **38**.
- (b) A scaffold platform **42** sliding into two compartments on angle iron frames **18** and retained by front corner angles **20** and rear chains **32** and snaps **34**.
- (c) Scaffold bracing **44** sliding into trough **26** and retained by front trough panel **28** and rear trough panel **30**.

## CONCLUSION, RAMIFICATIONS, AND SCOPE OF INVENTION

Thus the reader will see that the trailer mounted scaffold rack, compartment, and trough system provides a safe and easy method of handling, securing, transporting, and storing construction scaffolding and accessories.

While my above description contains many specificities, these should not be construed as limitations on the scope of the invention, but rather as an exemplification of one preferred embodiment thereof. Many other variations are possible. For example:

- (a) Different materials, sizes, and interconnections can be used for all components.
- (b) My scaffold rack, compartment, and trough system can be modified to handle other styles, sizes, and quantities of scaffold panels not shown in Fig 1.
- (c) Bins and compartments can be modified or added to carry and store different brackets and accessories not shown in Fig 1.
- (d) Locking lids, covers, doors, and anti-theft devices can be installed.

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- (e) Multiple rack systems can be used on one trailer or skid to increase quantities.
- (f) Compartments can be lengthened to carry long scaffold planks.
- (g) My scaffold rack, compartment, and trough system can be mounted on trucks, trailers, or skid mounted to be lifted with a crane, forklift, or roll-off system.

Accordingly, the scope of the invention should be determined not by the embodiments illustrated but by the appended claims and their legal equivalents.